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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/761,081	1,081 01/20/2004		Goro Nakatani	12844.0013USD1	1400	
23552	7590	05/04/2005		EXAM	EXAMINER	
MERCHA!	NT & GO	OULD PC	GURLEY, LY	GURLEY, LYNNE ANN		
P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903				ART UNIT	PAPER NUMBER	
				2812		
			DATE MAILED: 05/04/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Comment	10/761,081	NAKATAINI					
Office Action Summary	Examiner	Art Unit					
	Lynne A. Gurley	2812					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status 1							
1) Responsive to communication(s) filed on 24 Ju	ly 2002.	•					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.						
3) Since this application is in condition for allowan	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 9-12 is/are pending in the application.	•						
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9-12</u> is/are rejected.	☑ Claim(s) <u>9-12</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the o	•	, ,					
Replacement drawing sheet(s) including the correcti							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)☐ Acknowledgment is made of a claim for foreign a)☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		Tyme of Gurley					
Attachmont/s\	· DDI	LYNNE A. GURLEY MARY PATENT EXAMINER					
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/20/04; 6/1/04.	5) Notice of Informal P	atent Application (PTO-152)					

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DETAILED ACTION

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Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted on 1/20/04 and 6/1/04 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kwon et al. (US 2002/0022301, dated 2/21/02) in view of Chen et al. (US 2003/0013291m dated1/16/03, field 7/12/01).

Kwon shows the method substantially as claimed in figures 5-7 and corresponding text, with electrode pad 104, combined intermediate and pad layer 108 (comprises TiW) on the surface of the electrode pad; and an insulating film (passivation layer 106) which covers edges of patterns of the bonding pad and the intermediate layer (lower edges of 108).

Kwon lacks anticipation only in not teaching that the passivation layer is a resin insulating layer; that the TiW and pad layers may be sputter deposited.

Chen teaches a method which acknowledges benzocyclobutene (BCB) polymer resin as a passivation material in a similar contact structure [0022].

It would have been obvious to one of ordinary skill in the art to have used BCB as the resin insulating film, in the method of Kwon, with the motivation that Chen acknowledges that the BCB is available to one of ordinary skill in the art as a known passivation layer.

It would have been obvious to one of ordinary skill in the art to have sputtered the TiW and the pad layers, in the method of Kwon, with the motivation that sputtering is an laternative deposition process to the plating techniques taught in Kwon.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne A. Gurley whose telephone number is 571-272-1670. The examiner can normally be reached on M-F 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne A. Gurley

Primary Patent Examiner TC 2800, Art Unit 2812

LAG May 2, 2005